

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892492

Luminaire Tested: 2MB-2SL-AOL-UNV-L950

Issue Date: 11/11/2024

**Test Information**

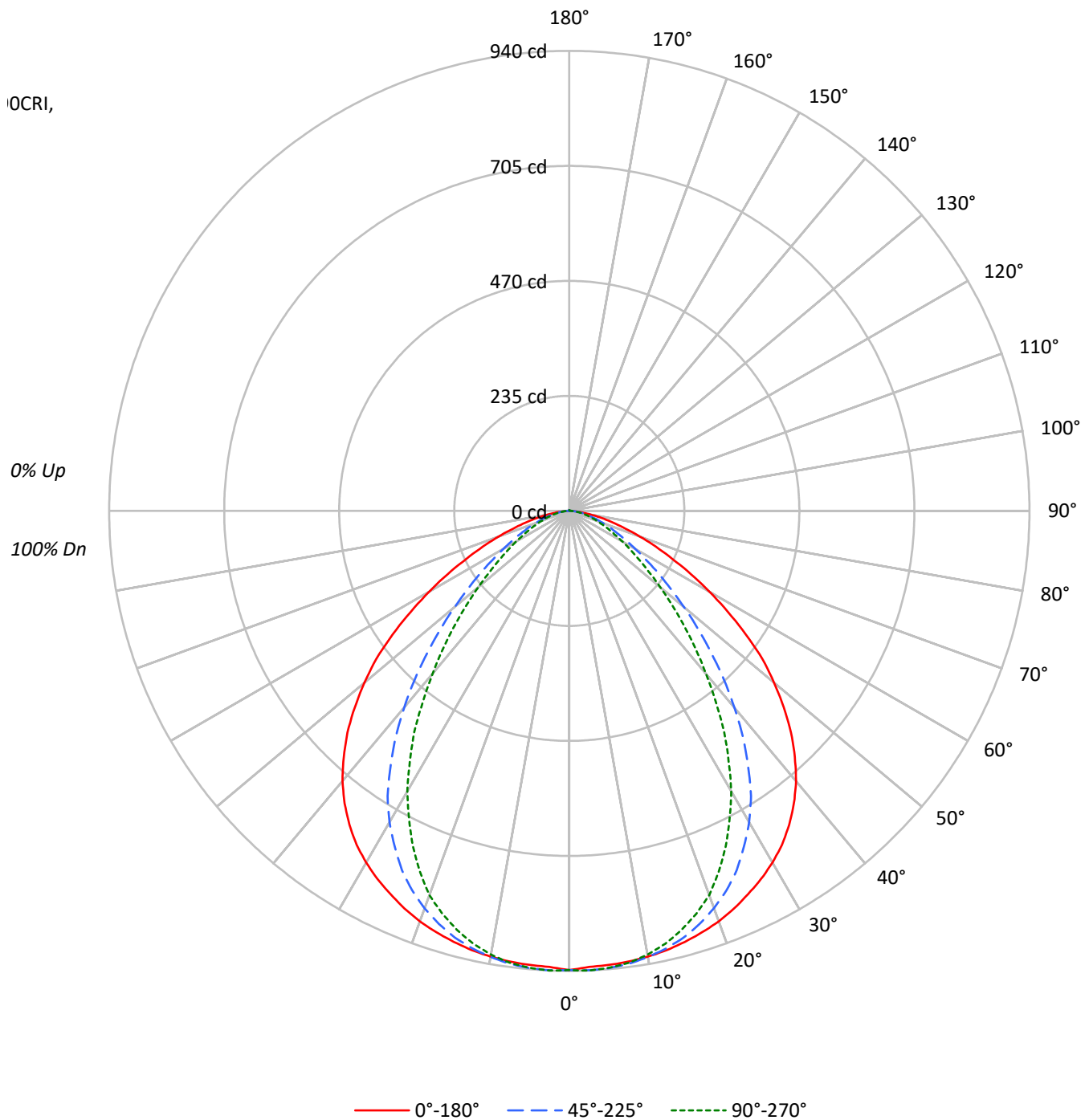
Test Method: LM-79-2019  
Report Number: P892492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2404-077-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 11/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 2MB-2SL-AOL-UNV-L950  
Description: 2000 Lumen 2FT MICROBAY LINEAR BAY with AISLE OPTICS WITH CLEAR LENS NO UPLIGHT, 9  
5000K CCT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1912.9 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.08 / 1.18  
Luminous Opening: Rectangular (W 0.27' x L: 1.98' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 5.92  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76		
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66		
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58		
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	52		
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46		
7	70	58	50	44	69	57	49	44	56	49	44	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37		
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19213	19213	19213
5°	19143	19274	19260
10°	19233	19245	19139
15°	19327	19138	18789
20°	19450	18829	18206
25°	19523	18289	17085
30°	19620	17369	15645
35°	19570	15921	13796
40°	19264	14025	11598
45°	18556	11850	9571
50°	17400	9741	7719
55°	15719	7904	6205
60°	13535	6364	5144
65°	11250	5257	4273
70°	9232	4406	3646
75°	7326	3766	3165
80°	5530	3219	2842
85°	3736	2984	2678

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18556 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	4.7
10°-20°	254.0	13.3
20°-30°	371.9	19.4
30°-40°	405.9	21.2
40°-50°	344.1	18.0
50°-60°	233.9	12.2
60°-70°	132.1	6.9
70°-80°	60.3	3.2
80°-90°	15.8	0.8
90°-100°	2.0	0.1
100°-110°	1.2	0.1
110°-120°	0.7	0.0
120°-130°	0.6	0.0
130°-140°	0.5	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	714.9	37.4
0°-40°	1120.8	58.6
0°-60°	1698.8	88.8
0°-90°	1907.0	99.7
90°-120°	3.9	0.2
90°-150°	5.3	0.3
90°-180°	6.0	0.3
0°-180°	1912.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	931	936	938	940	937	89
15°	912	911	903	893	886	258
25°	864	850	810	773	756	399
35°	783	733	637	570	552	489
45°	641	541	409	348	330	492
55°	440	326	221	184	174	393
65°	232	165	108	93	88	234
75°	93	68	48	42	40	100
85°	16	15	13	12	11	20
90°	0	2	2	3	3	1
95°	0	1	2	3	3	0
105°	0	1	1	2	2	0
115°	0	0	1	1	1	0
125°	0	0	1	1	1	0
135°	1	1	1	1	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	938.3	938.3	938.3	938.3	938.3
2.5°	932.6	937.7	939.6	942.1	940.2
5°	931.3	936.4	937.7	939.6	937.0
7.5°	928.8	933.2	933.2	933.2	931.3
10°	925.0	928.1	925.6	923.1	920.5
12.5°	919.3	920.5	915.5	911.0	905.9
15°	911.7	911.0	902.8	892.6	886.3
17.5°	902.8	900.2	885.0	871.7	862.8
20°	892.6	886.3	864.1	843.1	835.5
22.5°	879.3	870.4	839.3	810.1	797.5
25°	864.1	849.5	809.5	772.7	756.2
27.5°	848.2	826.6	772.7	727.0	709.3
30°	829.8	800.0	734.6	682.0	661.7
32.5°	808.9	770.8	690.9	627.4	605.9
35°	782.9	732.7	636.9	570.3	551.9
37.5°	753.7	692.1	582.4	513.2	491.0
40°	720.7	645.8	524.7	455.5	433.9
42.5°	682.0	596.3	467.6	400.3	381.9
45°	640.8	541.2	409.2	347.7	330.5
47.5°	594.4	486.6	355.9	297.5	284.2
50°	546.2	432.0	305.8	255.7	242.3
52.5°	497.4	377.5	259.5	217.0	205.5
55°	440.3	325.5	221.4	184.0	173.8
57.5°	384.5	279.1	185.2	154.2	147.8
60°	330.5	234.7	155.4	130.1	125.6
62.5°	280.4	196.7	130.7	109.8	104.0
65°	232.2	164.9	108.5	92.6	88.2
67.5°	191.0	134.5	90.7	76.8	73.0
70°	154.2	108.5	73.6	62.8	60.9
72.5°	119.9	86.9	60.3	52.0	50.1
75°	92.6	67.9	47.6	41.9	40.0
77.5°	67.9	50.8	36.8	32.4	31.1
80°	46.9	36.2	27.3	24.7	24.1
82.5°	29.8	23.5	19.7	17.8	17.8
85°	15.9	14.6	12.7	12.1	11.4
87.5°	6.3	7.0	7.0	7.0	6.3
90°	0.0	1.9	2.5	3.2	3.2
92.5°	0.0	1.3	2.5	3.2	3.2
95°	0.0	0.6	1.9	3.2	3.2
97.5°	0.0	0.6	1.9	2.5	2.5
100°	0.0	0.6	1.3	2.5	2.5
102.5°	0.0	0.6	1.3	1.9	2.5
105°	0.0	0.6	1.3	1.9	1.9
107.5°	0.0	0.0	1.3	1.9	1.9
110°	0.0	0.0	0.6	1.3	1.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.6	1.3	1.9
115°	0.0	0.0	0.6	1.3	1.3
117.5°	0.0	0.0	0.6	1.3	1.3
120°	0.0	0.0	0.6	1.3	1.3
122.5°	0.0	0.0	0.6	1.3	1.3
125°	0.0	0.0	0.6	1.3	1.3
127.5°	0.0	0.6	0.6	0.6	1.3
130°	0.0	0.6	0.6	0.6	1.3
132.5°	0.6	0.6	0.6	0.6	0.6
135°	0.6	0.6	0.6	0.6	0.6
137.5°	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6
147.5°	0.6	0.6	0.6	0.6	0.6
150°	0.6	0.6	0.6	0.6	0.6
152.5°	0.6	0.6	0.6	0.6	0.6
155°	0.6	0.6	0.6	0.6	0.6
157.5°	0.6	0.6	0.6	0.6	0.6
160°	0.6	0.6	0.6	0.6	1.3
162.5°	0.6	0.6	0.6	1.3	1.3
165°	0.6	0.6	0.6	1.3	1.3
167.5°	0.6	0.6	0.6	1.3	1.3
170°	0.6	0.6	0.6	1.3	1.3
172.5°	0.6	0.6	0.6	1.3	1.3
175°	0.6	0.6	1.3	1.3	1.3
177.5°	0.6	0.6	1.3	1.3	1.3
180°	1.3	1.3	1.3	1.3	1.3



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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.60	22.05	20.97	22.37	22.69	15.97	17.41	16.34	17.73	18.06
	3H	21.86	23.14	22.24	23.48	23.85	17.01	18.30	17.39	18.63	19.00
	4H	22.26	23.46	22.66	23.82	24.20	17.38	18.58	17.78	18.94	19.33
	6H	22.50	23.60	22.91	23.98	24.38	17.64	18.75	18.06	19.12	19.52
	8H	22.55	23.60	22.98	24.00	24.41	17.73	18.78	18.16	19.18	19.59
	12H	22.57	23.58	23.01	23.97	24.40	17.79	18.80	18.23	19.19	19.63
4H	2H	20.62	21.82	21.02	22.18	22.57	16.54	17.75	16.95	18.10	18.49
	3H	22.03	23.02	22.44	23.43	23.84	17.77	18.76	18.19	19.17	19.58
	4H	22.52	23.41	22.96	23.83	24.28	18.23	19.12	18.67	19.54	19.99
	6H	22.86	23.63	23.33	24.08	24.55	18.59	19.36	19.05	19.81	20.28
	8H	22.95	23.67	23.42	24.12	24.59	18.71	19.43	19.18	19.88	20.36
	12H	23.00	23.64	23.48	24.12	24.60	18.81	19.45	19.30	19.94	20.42
8H	4H	22.51	23.23	22.98	23.68	24.16	18.52	19.24	18.99	19.69	20.17
	6H	22.90	23.50	23.41	24.00	24.48	18.96	19.56	19.47	20.06	20.54
	8H	23.03	23.56	23.55	24.07	24.57	19.14	19.68	19.67	20.19	20.69
	12H	23.12	23.59	23.63	24.09	24.66	19.31	19.78	19.83	20.28	20.85
12H	4H	22.49	23.13	22.97	23.61	24.09	18.55	19.19	19.04	19.68	20.16
	6H	22.87	23.41	23.40	23.92	24.42	19.01	19.55	19.54	20.07	20.56
	8H	23.03	23.50	23.55	24.00	24.57	19.25	19.72	19.76	20.22	20.79